No 1 De Chapman Popled March 2. 1829 An Espay acute Stage of Dysentery Submitted to the Medical Faculty University of Pennsylvania For the degree of Doctor of Medicine -By Orlands Fairfax Virginia _ March - 1829 -

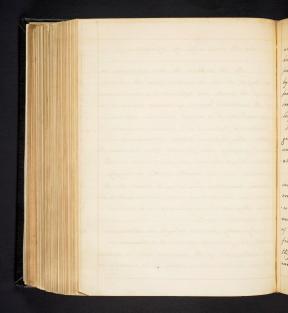






By the ancients the term dysentery, as we might be led to suppose from the etymolo-- gy of the word, was applied to several diseases of the intestinal canal; by modern writers it has been restricted to a single affection, defined, in Caldwelles Cullen, to be "a disease in which the patient has fuguent stools, accompanies with much griping, and follower by a tenumus. The stools, though frequent, are generally in small quantities, and the matter voides is chiefly mucus, sometimes mixed with blood. At the same time the natural faces seldom appear, and when they do, it is generally in a compact and hardined from "-

Sysentay prevails chiefly in warm elimates, and generally makes all appearance in the latter part of the summer and in autism If few instances are accorded of its prevailing as



an opidemie in apring and assulines it has been haven to continue from the fall for a quater part of the world; but generally it is abelied by the approach of winter. It is after to be prevail when the early part of the verse has been remarkably warm and accessed by a long continuance of wet weather.

Those climate also which are charactarized by great heat during the day, succeeded by coto and damping at night, are peculiarly favourable to set prevalence.

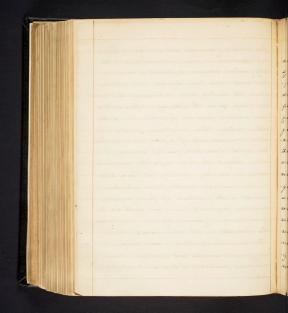
On most cases of dynaticy the first symptoms indicate an affection of the bowels; sometimes a common charchers appears, which gradually popular to the form of objections, at other times there are gripes und paneful storic succeeding a state of societienth - Cleghorn says, "some are suight at first with a livising of the guils which, as they experip it, cleaves up their bowels into had, and many, initial of griping pains, which shop and many, initial of griping pains, which shop



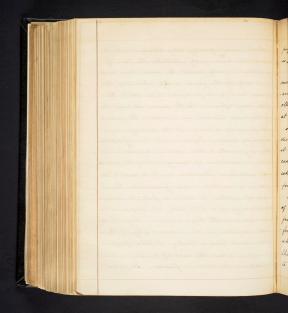
from place to place, and come at insteads, have a cute fixed occasion complaints as various as their scale; some being tomorities with solitable about the backard nebs, interrupting their health ing freely, as in the pleuries; others with a pain nearthing from one hypochondrium to the other, cutting them, as it were, in hie; white others complain only of a pain about the petrois, with a constant, fuelly, straining to store, with a constant, fuelly, straining to store; though the body is for the most pail, cooling, or otis charges withing but bloody alone?

In miasmatic countries and situations for vourable to the prevalence of Junes generally, degreentry frequently bracks out with all the symplems of a geneine pyragia, and actain this what course—

Sometimes, when it attack is most sendown, it comes on with naurice and nomiting attended with great prostration and a weak and frequent puter.



But however dysentry may commence, after the disease has become fully established the train of symptoms is pretty much the same, being mode - find only by the greater or less intensely of the disease, and by the particular type which the fever may afeume - as the disease advances, This griping and tinesmus are increased, the patient goes frequently to stool, but the discharges are ex-- cuclingly small - Together with their symptoms, there is generally a total want of digretion, and various indications of duangement of the primar via; sometimes flatuliney exists to such a de-- que as to constituto a real tympanitis. There is want of appetites; the mouth is foul, the patient complaining of a bitter taste; the tongue white and covered with tough mucus, or rough and dry and sometimes, in the advanced stage of Andis -ease, dark bown or black - Aphtha frequent - by appear about the root of the tongue, and shread over the internal facces - The patient



prequently evinces great tendanch when the abdomin is preprid -

desempanying their symptom their is always men or def fever. This fever may a form any about action - sometimes it will be inflammatery, at other lighthint - sometimes it will be vorticuled, at other, instamilitial or semilion-

The febries symptoms generally accompany the observe superistly when it temps in a fall manner. In other cases the febries state, adment entirely disappears while the photos experience symptom, remain for a long time after.

Wilson Phalip mentions case, under the name of dysentry, where there was no appearance of fewer in any stages; but he adds, that the affection of the tower was very stight and of whost duration; and I am inclinion to think. What there was coits scarcely have been entitled to being so classed.

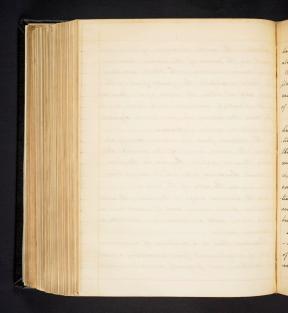


Stools - The matter discharged by stool, rows much in the course of the disease; sometime it is mucous schicked with blood; sometime the blood constitutes the quater fuct of the stool, and are others the whole of it. More row by it is entirely summered worth blood, and in this case the disease has diseased adjuntine all or mereby mucous.

The natural faces are actained during almost the whole course of the disease; and when they are appear, they are in the from of small handened balls, which seem is have lain long in the cells of the colon-

In the advanced stage of the dieser the state committees become samon, and of a dark been a black colour, with an almost insupportable, as described from fall and almost insupportable, as

Sometimes there is a discharge of membranew tubes of a explinatical form, resembling a fixed of interdine; and frequently small brokes, which



have the appearance of fat or cheese. Pure pus is also sometimes found in the stools-

Such are the discharge which usually take place in dysentry; but Sydenham mentiones cases of the disease, when there were no stool of any kind -

Fort mertion appearances. When death has occurred early in the observes, the inter-lines are found integrally contracted, but if the disease have been of longer standard, they are frequently, found inlarged, the effect of eigenstated obstation by air, in some cases the colon faction and in found as much discussed, that the appearance of its cells and even of the ligament which formed them, has been almost entirely obliterated.

The mucrus coat, particularly of the large inlictive, is always inflammed, being constinus of a reddish colour, and at other times liweel, which latter appearance is frequently min th 9 laken for gangrene. This eval is also prejunity ulunatio, the relieve sometimes extending to the otherwise
and perforating them. I emilione et is stirted at
with numerous times of them of a hate need or yellow
solven, and some of them object this seemable
well be found some of them object thin this mentione
well be found gangreness and soft in parti-reming
to be dispolated into a soft grunish, publish massithe gangreness state is not always confined to
the muscus coat; but greatly extends to the
other area or the proper the extends on the
other area is they are found the cheened and timies,
and here and these tender as if furtices-

In Clighen informs us that in some instanse he found amall abolie in the cellular memhane of the periformum, contiqueus to the colon and action; and combines the different convolution of the intestine adhering to each other by their piritenal coat-

The mesentirie glands are generally found inlarged and turned -



The other viscera of the abdomen are frequently sound - The gall bladder , though , is sometimes much distincted, and filled, with bile of a darker colour than usual; and the liver, spleen and panereas have been found flaccid and enlarged, more nonby, oliminished in size and inducates. They have been found too filled with abserpes or gangrenous. Causes - For a long time dysentery was universally thought to be dependent on contagion, but, of late years, this opinion has been almost entirely abandoned; at least, as respects the ordinary forms of the disease; though it is still believed by some, that in its approvates forms, it is capable of reproducing itself in crowded and ill vertilates apartments-

I do not wish here to enter into a long discufrem on the ments of this greation; I will only experts my belief, that in a climate and season favourable to the prevalence of dysenley, the simple fact of arounding numbers

-/ 31 01 h 10 -de tes th into the same apartment, will be found fully adequate to the production of the disease -

Altherphical vinfettives, or whater times to sufperfo the outainers and bilary secretion are a very
semme cause. Also extain injectic, as unifer fruits
unwhelesom vegetable, special free of whater biles,
or vie view, or from sall made to fish, may also
produce it. Sewas, in his account of the dysentry
whether provides in the Butter army, during a
campaign in Egypt, mention, that many of the
solutions were allacked with the disease from oresolutions were allacked with the disease from orestely including in the use of fresh mutten are
buffale beef, after having been confined for a long
lime to salt meati-

The same author observes, that in Egypt dink ing immoduality of coto water, frequently exects the disease, and that, the nations evere so well aware of this fact, that they events dink it in by in the smallest quantities, taking it up in

de d an ta 6 7. -i the palms of their hands -

Sy seating pervails also frequently as an epidemic. Siagnosis - The only desease, with which dynsentisy can be confounded, is diarrhoan; and forsentisy can be confounded, in diarrhoan; and fordiarrhoan it is sometimes not easily destinguished- St. Cullin says, diarrhoan distiffur from dynentry in being convally without from and
accompanied with the consecution of the nalineal experiment, which are, at hast, for some
limes, retained in ety under - Sellinately the
distinction is not practically of much impolanes.

Progress- We may look for a favourable to mination, when the case is open and inflamma lay in its early stage; when the felics symptom are mite, some deque of a pitite unains, and the patient is little troubles with newscar who the patient is with pain is not very severe nor the stood way fatter; when the constantion, weakness and anying are not considerable; and above all when

ga w. the -6 w d. 1 t the patient enjoys sleep, and the skin is soft and moist-

But we have much reason to be alarmed, when great debility attends from the commencement; when a lienteric purging some on, whatever is taken being paped with little change; when the pulse becomes extremely frequent, small, and inequelar; when the skin is bedevice with coto, commy, and partial eweats; and when the ex-- himilies become coto - And more than wer should we be alarmed, when the pain and times mus suddenly remit; the anxiety at the sametime increasing, with dark coloured and offensive stools, and a Hippocratic countinance; for we may be africed that mortification has taken

Pathology - Dysentry consists in an inflummation of the mucous membrane of the alimentary canal, accompanied always by disorder in the functions of the liver and

00 - 00 n a when - The devotes in the perspirating and believe secretions generally, and perhaps always, present the inflammation of the mesons mumbiane, and may be considered as its presimate causes. The wolume of the short of the schine, the wolume of the best of the section, the expect of the which is plethern in the mesons with direction and enflammation of the interest of the interest canal, succeeded by general fover the the same income the direction of the believes to include the interest of the believes to include the many of the canalism and inflammation of the mesons when common of the canalism.

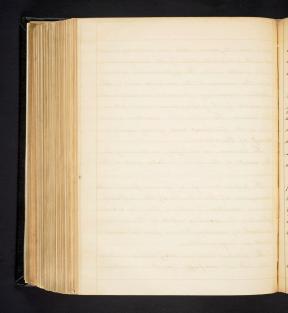
many symptoms of fever, and in which the symptoms of an affection of the lower bower does not mapped as a present deeps, the original sead of the decision is still seen the administracy canal, but higher up, in the atomach and discomming area as the inflammation bravels down the canal, the proper objections about Mismaelves appelies adout Mismaelves of the proper objections about Mismaelves of the proper objections of the proper obj

·u in an th a ·oli M 20 0 in such asses the disease stone more intermediff connect set with a copravior state of the biliary secretion. On a little write the inflammation extends from the muscule coast of the interfere, occasioning apassessic contraction, which are evenior by the griping pains, always felt in the disease. In furthermation, semitimes extincted the disease. The priving along giving sizes to linear of the priving sizes to linear of the absormer.

The timesmus, as one to pring in depending, is the result of the highly initatio state of the rection -

The perfect discharge of murous fluids is the consequence of the attempts of the instance musous membrane to redirect elects by secretion described of this membrane instance of secreting supple of this membrane instance of secreting murous, pour out recurrent blood in large quantities—

The purulent discharges may depend on uleuation, but not necessarily, for it is a preuticuity



of muceus membanes that when inflame they secrete pur even before the inflammation has are winter at the adherive stage.

The aylandrical libes recembling prices of interine, are farmed by effection of coagulable lymph on the surface of the interior, which accounts for their cylindrical form. The lymph is mayed with amall quantitie of inspipates mucres, which gives it a greater degree of consistency. The small choosy or fleshy substances are probably the same in composition.

The scylate are portions of the natural faces, which have tain long in the cells of the colon, or in the unnatural cavities fertical by the irregular contractions of the intestines and are discharged as these contractions become relaxed either by the similared within the come relaxed within by the similared within the time of the discussion of the discussion by most facilities.

In those cases related by Systenham, where there were no discharges of any hims,

the mucus membrane must have been inflamed beyond. The secreting point-

Qualment. Of the pallology which has been given be correct; the chief indications in the own with manifest y be, is restore the healthy secretions of the lives and skein, and a remove the inflammation of the intestinct canal.

The heatment ment of source be carried, it suit the different form of the diseases. In the inflammatery form it has been usual with the Chapman. Mostly and other high authorities to precede the use of all othersemodes by that we of the lancet. The latter gentleman says, there are very few cases in which venescetion may not be safely assetted in the communication of disease. This we are took by the observed of the disease. This we are took by the collaborate of Sar Sakain in his admirable treative on the diseases of

tropical climates, that "whenever Good appears alarming by in the storts, whether the fever run high or met, venescetion may be employed, without the slighted apprehension of that bugbear debility? Venescotion, acting on the principal of revulsion, determines, at once, the blood from the mesentine vepels, and checks the effusion from the mucous surface of the intistine. a general relaxation follows - intestinal stric-- tures are removed - scybala and facal accumula tions pap off; and the softnep of the skin, with the partial restoration of its secretions, evinces, that there is an approach to equilibrium in the circulation . at the same time the system acquires a full susceptability to the operation of medicines. which, previously to detracting blood, we might have administred in voin -It was the practice of its mosty, to follow the use of the lancet by an imitic of Spicacuan ha; but De Chapman, very property in my opin-

ion, limits this practice to those cases, so com-

A m 9. 4 men in minimatic countries, when then are accumulations of bile, and other contrating fluids in the stemach and devolution, giving rise to nausea also remiling-

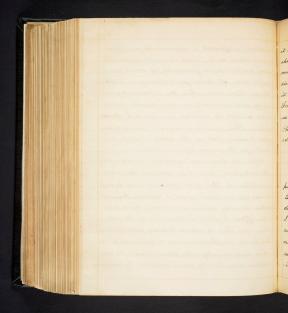
Our most remody is penging. All writis have consumed in the sees of catherites; the only questions which have been agitato among them, are how for burging shrite be carrier, and what catherie whent to observe Confinantly it the pathetic whent has been given in the paper, and in pathetic which has been given in the paper, and in which it was states, that the liver is always more notify in fault, mureural purger are to be purferred; and among them calemat seems pasticularly and among them calemat seems pasticularly and the best purposes in the property and the seems of the generally given in order to our preference. It is generally given in order to our preference.

Caster oil and Epsom salts are rised by many pactitiones instead of calomet.

In W. Philip declars, that, for producing a few discharge from the browls, he has found no

A - p -a 9 - 0 e medicine se effectual as épicacuampa given in derse se semal as la forment ils emetric effect. The
same author apachs favourably of semale and arpeates circu ef tantarizies antimony, as a cathor
tie, in Those cases where the informativy lindinay and excitiment are considerable; but he
observes that he considerable; but he observes that he considerable; but he
observes that he considered it inferior to éfecace
anha. These modicines many all answer a very
good prespose, but on the whole, I prefer calomel, for the ceases before mentions.

lefter we have once succeeded in exacuating the entistines, and have exclused the petitle symplems to that peint, whose it will be easilited to use it; we must resort to opium. Our indication in using opium is not only by its sociation in using opium is not only by its sociations of the inter-time effect to alloy inflammation of the inter-time, and thus to return but by its sciaphoretic powers to determine to the when and equality the circulation. Its oper-ration may be very much imposite by combining



it with speacuanks. Indus, in this circursit shouts never be result alone as it is in combination much left aft to produce wheel conclines follow disagreeable symptoms, which cometimes follow its exphibition. It may be given in the form of townspowed in the form of two products or when it is necessary be entired to the executions of the intestinal canal, See Chapman recommends, that calonel shouts be addice. He formula is as follows.

P. Calom. - ga. XVI

Sulv. opii - ga. IV

Specae - ga. Viij - M. & div. in

puter Vij - one every 2 or 3 hours, as necessary. It chapman says, This is not the most action disphoseits we propely but says he / I believe I guest him right "it produces effects at the vision sathe more important, it compress initalinates the surety and makes new compression, wheeh are altigether wo intelligables.

-16 110 - 2 6 10 10 -14 . 4 - 6 k 4 k

Practitioners have differed much, as to the extent to which they have carried the use of deaphreties in this disease; though all have agreed in the me-- cefilly of restoring the functions of the skin to. Mosley believing with By dinham, that, "dysentry is a fever, sui generis, turned in upon the intertimes, for want of a free and regular puspiration, relied almost exclusively on the use of sweating for the cure of the disease. This plan may have succeeded in the hands of M. M. but we have ex--cellent authority for saying, that in the hands of many other judicious physicians, with whom it received a fair trial, it has repeatedly fair - led. The very fact, that, in some instances, the sweating does not relieve the tinismus, and the patient has, in a heater condition, to go to stoot when, unless he be very curefully nursed, and have every convenience around him, he will be very liable to a check of purpiration, should be sufficient to banish this method from the



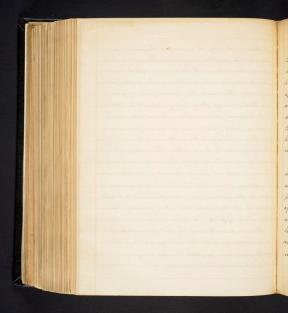
practice of armics, and from all place when the education and best accompositions can not be attained for the sick-

But although sweating shouts not be ex -clusively relied on, it is always important lo keep up, if possible, a proper degree of action in the cutamous capillaries - For this purpose, together with our diaphoutic medicines, we shoute adopt such means as will most effectually protect the surface, particularly that of the abdomen, from exposure; for in no other disease is the patient so exquisitely sensitive to the action of coto - Sewar, an author whom I have before quotes, remarks, that "the acci-- dental admission of colo air, or a momentes removal of the accustomed covering, produces sometimes a death-like chilling, sometimes an acute pain, paping through the abdomen, and striking to the heart"

The most effectual mean which we populs

à. -/m

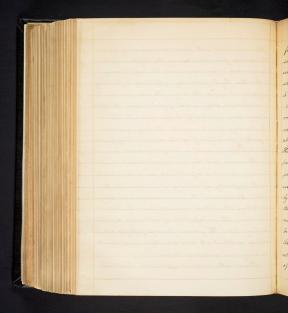
for keeping the body at an uniform timperature is a plannel roller applied around it. The manner of applying this roller with the excellent effects resulting from its use, is well described by the author just mentioned - He directs, that several folds of flanul or a thick peice of fluory hosiery should be applied to the abdomen, and over this a flannel roller should be bound, pretty tightly and in an uniform manner, from the groin nearly to the axilla, and then down again To highly did Dr. Dewar esteem this measure, that he mentions it as the chief of his remedies, and as being in many cases of chronic objecting, competent alone to effecting a cure - But he does not, by any means, limit to the chronic form, but declares it to be appli--cable to all the stages, and that generally, the ear-- lier it be applied, the more speedy will be the cure But, in order to reap the full advantage of it; it is necepary, that the bandage shouts be applied with great case, so that it may not grow loose, and slip up, having the lower part of Mr. abdomen bure.



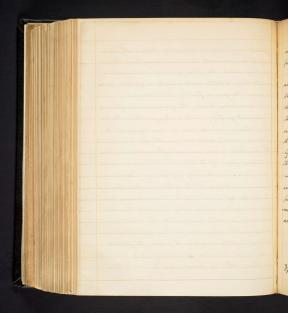
It was usual with Sewar to commune by making the bandage face round one of the thighs, and then, having made of few lives senal the body, to carry it to other thigh, proceeding, afterward, to finish by afflying it round the body. He also used sometime an additional steep, which paped between the thigh serving more affectually the kept down the part of the bandage Which ensisted the body, and also to protect the experiment, being furnished at the part, with a pladget of wood.

The warm both has been much praised, in the disease, but it is objectionable, on several points; as the difficulty of beinging it at purious the proper temperature. The inconvenience and danger taking the patient fragments from his bed; and sentime the interpretability of obtaining a prepurature the interpretability of obtaining a prepurational temperature and should, or every case, superends its very and should, in every case, superends its very case, superends its very

Teveral other external applications have been



On some cases, besides the general uneasines and occasional griping, which always attend the disease, there is a fixed pain in some region of the abdomen which resists all our attempts to remove it. This indicates a more decided inflammation in some particular part of the intestines, and here we shall find blisters particularly efficutions. Leeches and warm formentations to the abdomen, have been highby spoken of under similar circumstances. But there are objections which apply to all the three last mentioned remedies, namely, that the patient must be somewhat exposed during their application, and, that it will be necessary to remove the flannel which I consider so more important than either of them - Where we do not wish to resort to these



means, and where the constitution will bear it, we may prequently allam the same ends by general bleeding.

I shall now say something of the remedies which should be directed particularly to the termina and tinesmus. The former of these affections of have said, depends on instation and inordinate contraction of the muscular coat of the bowels, the latter on the irritated state of the mucous coal; particularly of that of the nection. They are both however frequent by kept up by the same causes, and relieved by the same means - A very common cause is the pre sence of hardened faces. Our best remedy therefore in such a case is an evacuant, as a close of some purging salt, as castor oil - In Chapman recom mends a combination of Castor oil and laudanum, according to the following formula

P. Ol. Niewi -- 3/ G. Arab. -- 3/4 Sandam -- 9th IX. Ag. Month. -- 3/4/ 3fp bi be given sury 1.2 or 3 hours -



Much relief will frequently wealt from the use of anodyne and of evoling semolitims of graters as of lands - new and lay on of sold was - the Luches a popular round the very of the anses are also very serviceable. In all cases when there is much tenemus, the anses school there is much tenemus, the anses schools by a pladfel of

The dust in depending should consider of mucilaginous substances, such as bookly water, describe of the back of the slippay alm, or describes of flag eved to.

Such is the treatment of the acute stage of the assesses, when of the inflammating kend; but when it a furners a typhost observation. We must use all the in many neglect observations. He must esten all the presentions, mentary in the treatment of other lighted between, that we may met sydaust the stronglish of one patient; and whents syhaustem, must have to the usual elimination; or we must resent to the usual elimination; for affecting support.



But so difficult is it to support the system at the same time that we are administering the usual remedies for the removal of the disease, that I own not help agreeing with Dr, Chapman, that our best plan is to put the patient, if populle, immediatily under the effect of mireury, inducing a slight salivation; for whatever may be said of the dan - ger of carrying the use of mercury to this extent, it is certain, that, in dysentry, salivation is the most speedy and infallible mean which we poper, the disease always yielding immediately on the mouther becoming affected - and though in some instances, from the patients happening to be of a scropulous or scorbutic diathesis, or from some other peculiarity, which we can not comprehend, bad consequences may result; neverthelip whenever there might be the prepring necepity, which exists in the typhoid form of the disease, for putting imdiale stop to its course, I should advise the pur - suance of this treatment -



membrane must have been inflamed beyond the secreting point-

Freatment of the pathology which has been given be consect, the chief indication in the cure will manifestly be to restruct the healthy secretions of the lever and whim one to restore the inflammation of the intestinate canal - inflammation from madion of for

The treatment must, of course be varied to suit the different forms of

Pathology Treatment

Vaginia different W. F. Sheets

a were the inflormation of the external anal - reframmstood from marin of in brownia to difficult ... W. S.